

EL PASO NATURAL GAS COMPANY

P. O. Box 997
Farmington, New Mexico

September 3, 1958



Mr. E. C. Arnold
Oil Conservation Commission
1000 Rio Brazos Road
Aztec, New Mexico

Re: Packer Leakage Test on the El Paso Natural Gas
Company Well, San Juan 27-5 Unit 28 (PM),
8008, 800W; 25-27-5; Rio Arriba, New Mexico
(Name - Location - Company)

Dear Mr. Arnold:

The subject well was dually completed in the Pictured Cliffs and Mesa Verde zones and a packer was set at 3622 feet. The Mesa Verde zone was tested through a $3/4$ " choke for three hours August 27, 1958 with the following data obtained:

PC SIPC 911 psig; Shut-in 13 days

PC SIPT 913 psig;

MV SIPT 1107 psig; Shut-in 13 days

| Time Minutes | (MV) Flowing Pressure Tubing Psig | (PC) SIP (C) Psig | (MV) Working Pressure, Psig | Temp ° F |
|-----------------|--------------------------------------|-------------------|--------------------------------|----------|
| 0 | | 911 | | |
| 15 | 387 | 912 | | 67 |
| 30 | 356 | 912 | | 67 |
| 45 | 322 | 912 | | 67 |
| 60 | 284 | 913 | | 68 |
| 180 | 204 | 919 | Calc. 419 | 70 |

The choke volume for the Mesa Verde was 2497 MCF/D with an AOF of 2817 MCF/D.

The Pictured Cliffs zone was tested September 3, 1958 with a $3/4$ " choke for 3 hours with the following data obtained:

PC SIPC 945 psig; Shut-in 20 days

PC SIPT 945 psig;

MV SIPT 1112 psig; Shut-in 7 days

San Juan 27-5 Unit 28 (PM)

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| <u>Time</u> <u>Minutes</u> | (PC) Flowing Pressure <u>Casing Psig</u> | (MV) SIP (T) Psig | (PC) Working <u>Pressure, Psig</u> | <u>Temp ° F</u> |
|-------------------------------|---|-------------------|---------------------------------------|-----------------|
| 0 | | 1112 | | |
| 15 | 824 | 1115 | | 64 |
| 30 | 804 | 1115 | | 68 |
| 45 | 791 | 1115 | | 70 |
| 60 | 786 | 1116 | | 72 |
| 180 | 714 | 1120 | 755 | 75 |

The choke volume for the Pictured Cliffs test was 9030 MCF/D with an AOF of 21,636 MCF/D.

The results of the above tests indicate there is no packer leakage.

Very truly yours,


H. L. Kendrick
Gas Engineer

HLK/nb

cc: W. M. Rodgers
E. S. Oberly (S)
File